

**Amendments to the Claims:**

The following listing of claims replaces all prior versions and listings of claims in the application:

1. (Currently Amended) A method of tuning a cardiac prosthetic pacing device, the method comprising the steps of:

(a) monitoring the flow output from the heart utilizing a transcutaneous continuous wave Doppler signal directed at the heart to obtain a signal indicative of intra-cardiac blood flow velocity under a number of different operation conditions for a patient including walking and running;

(b) constructing a table of correspondence between activity type and flow rate and storing said table on said cardiac prosthetic pacing device ~~processing the signal to obtain a velocity time integral;~~ and

(c) using said table, adjusting the timing of pacing events by said cardiac prosthetic pacing device so as to optimise the flow from the heart under operational conditions.

2. - 3. (Canceled)

4. (Currently Amended) A method as claimed in claim 1 wherein said ~~method~~ monitoring is repeated under a number of different pharmacological conditions for a patient.

5-8. (Canceled)

9. (New) A method as claimed in claim 1 wherein said monitoring is conducted on a number of patients.

10. (New) A method as claimed in claim 9 wherein results from the number of patients are statistically combined.

11. (New) A method as claimed in claim 10 wherein the statistical combination of results includes averaging for at least one of age, sex and weight.
12. (New) A method as claimed in claim 1 wherein the adjustment of the timing of pacing events includes calculating a difference between a current rate and an activity rate obtained from said table and adjusting the timing of pacing events so that the current rate is closer to the activity rate.
13. (New) A method as claimed in claim 12 wherein said adjustment operates in a feedback loop constantly with a predetermined delay.